

Name _____ Date _____

Forces

When you ride a bike your foot _____ against the pedal.

That push makes the wheels of the bike _____.

When you drop something, it is _____ to the ground
by _____.

A push or a pull is a force.

A good definition for force

_____.

Forces affect how objects move.

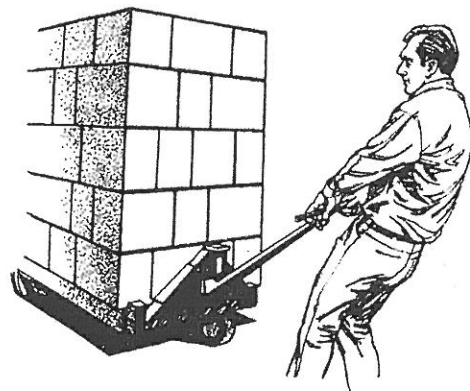
They may cause _____.

They may also _____, _____ or change the _____
of motion of an object that is already moving.

Forces can affect motion in several ways:

They can make objects:

- * _____
- * _____
- * _____
- * _____
- * _____
- * _____
- * _____



Because force causes change in the speed or direction of an object, we can say
that forces cause changes in _____.


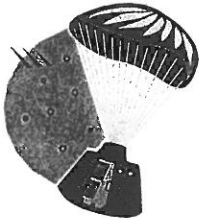



Velocity is the amount of _____ travelled in a certain
_____ and in a _____.

Force Facts:

- * Forces are measured in _____
- * Forces usually act in _____.
- * Forces act in a particular _____.
- * Forces usually _____, but their effects can be _____.

Forces Worksheet 2

Label the force in each picture as a push or pull. Then describe whether the force is causing a change in speed or direction or both.

More than _____ force can act on an object at a time.

The forces can push or pull in _____ direction.

What happens to the object when the forces act depends on two things:

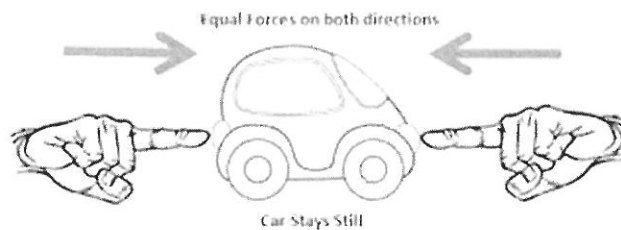
1) _____

2) _____

When more than one force acts on an object, the forces combine to form a _____.

Net force is the combination of _____ acting on an object.

Forces may work together or they may be _____ forces.



Two or more opposite forces are _____ forces if their effects _____ and they _____ cause a change in an object's motion

If two forces of _____ strength act on an object in opposite directions, the forces will cancel, resulting in a net force of _____ and _____

If one force is stronger than the others, the forces are _____.



Unbalanced forces cause a _____ (speed and/or direction)

When two forces act in the _____ direction on an object, the net force is equal to the _____.

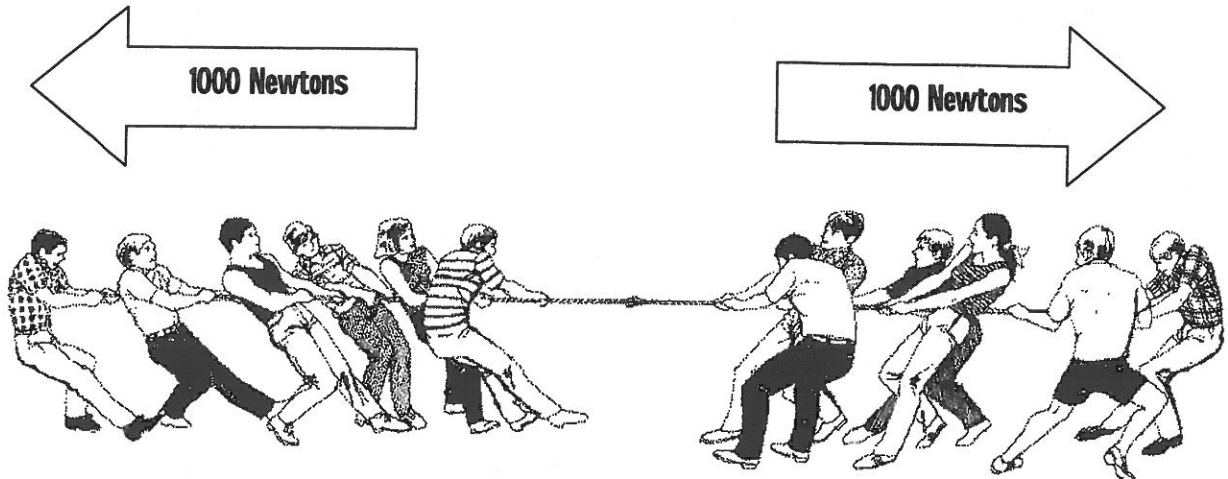
Net force = _____

When two unequal forces act in the _____ directions on an object, the net force is equal to the _____.

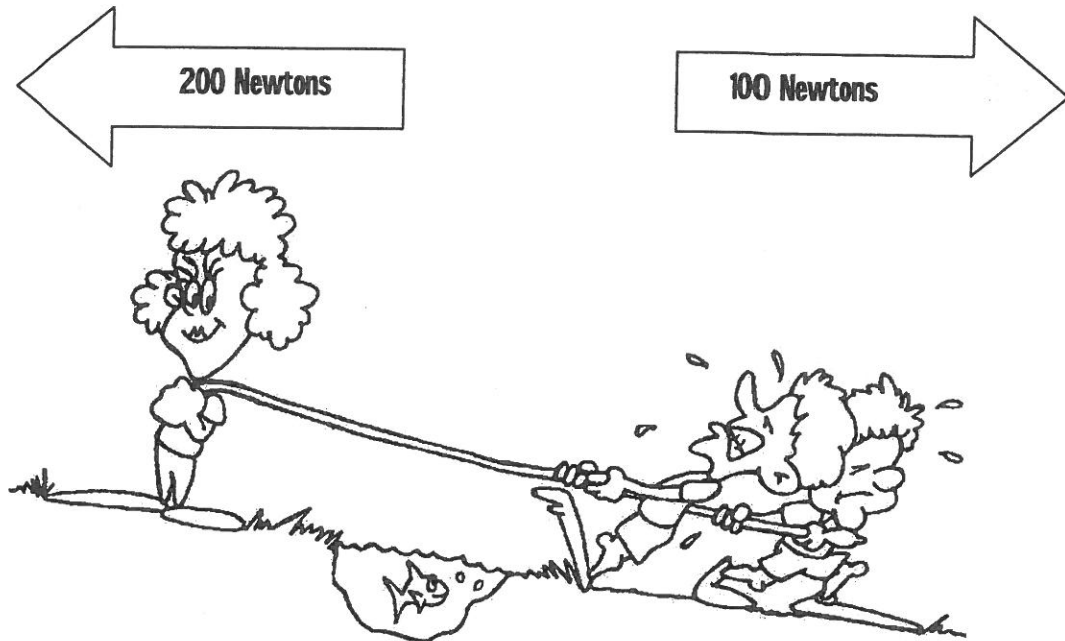
Net force = _____

The final force is call the _____.

Circle the best answer:



1. The forces shown above are **PUSHING / PULLING** forces.
2. The forces shown above are **WORKING TOGETHER / OPPOSITE FORCES**.
3. The forces are **EQUAL / NOT EQUAL**.
4. The forces **DO / DO NOT** balance each other.
5. The resultant force is **1000 N TO THE RIGHT / 1000 N TO THE LEFT / ZERO**.
6. There **Is / Is NO** motion.



7. The forces shown above are PUSHING / PULLING forces.
8. The forces shown above are WORKING TOGETHER / OPPOSITE FORCES.
9. The forces are EQUAL / NOT EQUAL.
10. The forces DO / DO NOT balance each other.
11. The stronger force is pulling to the RIGHT / LEFT.
12. The weaker force is pulling to the RIGHT / LEFT.
13. Motion is to the RIGHT / LEFT.